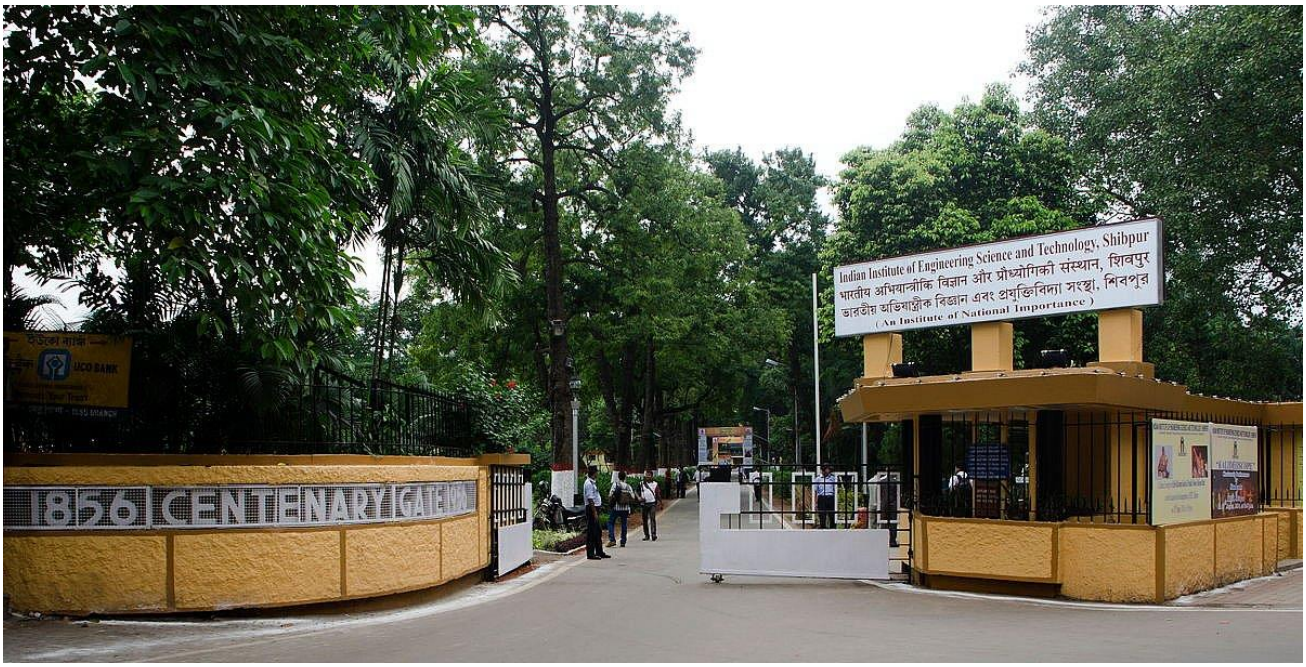
Information Brochure for BS-MS admission process



Admission to BS-MS Program
Academic Session 2026-27

Indian Institute of Engineering Science and Technology, Shibpur
Howrah – 711 103, West Bengal, India

1.The Institute

Indian Institute of Engineering Science and Technology, Shibpur (IIEST, Shibpur) started its journey in 1856 as CALCUTTA CIVIL ENGINEERING COLLEGE and emerged as a premier engineering college in the pre-independence India. It was renamed as BENGAL ENGINEERING COLLEGE, SHIBPUR in 1920. The College received the status of a DEEMED UNIVERSITY in 1993 and was subsequently transformed to BENGAL ENGINEERING AND SCIENCE UNIVERSITY, SHIBPUR in 2004. The institute has been upgraded to an INSTITUTE OF NATIONAL IMPORTANCE by the amendment of NITSER Act of the Parliament in 2014 and renamed as INDIAN INSTITUTE OF ENGINEERING SCIENCE AND TECHNOLOGY, SHIBPUR. The Institute has fifteen departments of Engineering, Architecture, Science, and Humanities & Social Science disciplines. In addition, it has five Schools and two Centres dedicated for imparting education and conducting research in interdisciplinary fields.

2.The Institute Campus and Other Facilities

The Institute has a beautiful green campus covering an area of about 49 hectares situated on the bank of the river Hooghly. It is located next to the AJC Bose Indian Botanical Garden and opposite to the Kolkata Port. The campus has a number of academic and administrative buildings, library, accommodations for staffs and students, guest house, auditorium, swimming pool, students' amenities, banks, school, hospitals and general services.

Main Academic and Acharya SN Bose Building

The four-storied Main Academic Building accommodates most of the engineering departments, Department of Human Resources Management, Office of the Dean (Academics) and Office of the Deputy Registrar (Academics). The eight-storied Acharya S N Bose Building accommodates science departments, architecture, and various centers and schools. SOCSAT is located inside a heritage building. Offices of the Director, Deans, Registrar, and other administrative offices are also located in the eight-storied building.

Main Academic Building

3.1 Central Facilities

3.1.1 Library

The Institute has a separate library building which is kept open from 9 AM to midnight. The library provides online search facilities (OPAC) of its database from any computer connected to the Internet and also from the computers in the library dedicated for the users. Currently, the library has more than 1.4 lakhs text and reference books, and 40,000 bound volumes of journals. It also has a huge collection of documents including patents, standards, technical reports and pamphlets. The library possesses a good collection of old and rare books and journals of the nineteenth century. The library is a member of the Indian National Digital Library in Engineering Science and Technology (INDEST) and UGC-INFONET Digital Library Consortium of Information and Library Network (INFLIBNET) Centre and provides online access to full text of journals including American Society of Civil Engineers (ASCE), American Society of Mechanical Engineers (ASME), Economic and Political Weekly, IEEE /IIEE Electronic Library (IEL Online), ISID, JCCC@INFLIBNET, JSTOR, Science Direct, Springer Link and many others. It subscribes a large volume of e-books. The library also has different software which helps the students to write papers and reports in correct English with the plagiarism checking.

Ramanujan Library

3.1.2 Computer Centre

All departments, schools and centres of the Institute have computing facilities for their students. In addition, there is a Central Computer Centre which provides computing facilities for undergraduate and post-graduate courses and research works. The Computer Centre along with the departments, schools, centers, offices and hostels are connected to a campus wide fiber optic network. The entire campus including the hostels is Wi-Fi enabled.

3.1.3 Workshop

The Workshop Complex has nine engineering workshops including Carpentry, Smithy, Welding and Painting, Fitting, Machine, Foundry and Pattern, Boiler, Electric, Automobile, and Project Model to offer workshop practice.

Workshop Building

3.2 Health Service

The Institute has a Health Unit with Medical Officers and other supporting staff to serve the Primary medical needs of the campus inmates. It provides 24 hours' ambulance service. The Unit has an ID Ward to effectively isolate students suffering from infectious diseases. However, for serious cases the patients are referred to suitable city hospital.

3.3 Hostel Accommodation

Hostel accommodation is not guaranteed. It may be provided as per norms of the institute, subject to availability.

3.4 Students Amenities

Office of the Dean of Students Welfare facilitates all students to use different facilities available at the campus. The students of this Institute are encouraged to participate in sports and games, various cultural activities like music, photography, dramatics, paintings, model making, creative writing, debating, as well as to explore innovation and incubation of business plans, etc. All students are encouraged to participate in games or some form of physical training. The students are advised to join the athletics Club and at least one of the societies in the Students' Activity Centre. The campus has the following amenities for the students.

- Centre for Creative Expressions with different hobby clubs
- R. N. Banerjee Student Recreation Centre
- Institute Hall: A Multipurpose Auditorium
- Gymnasium
- Oval and Lords - Two sports grounds
- Swimming Pool
- Alpona Banerjee Memorial Centre for Innovation
- Basketball court
- Volleyball court
- Student canteens /cafeteria as well as food kiosks
- Tagore Green Business Incubation Centre.

4. About the BS-MS Program

The Bachelor of Science–Master of Science (BS–MS) integrated programme in Physics, Chemistry, and Applied Geology is designed in accordance with the vision and framework of the National Education Policy 2020, which emphasizes multidisciplinary education, flexibility, and holistic development. This programme aims to cultivate a strong foundation in the fundamental sciences while encouraging interdisciplinary learning, critical thinking, and research-oriented skills.

In alignment with NEP 2020, the curriculum integrates core scientific principles with modern advancements and emerging areas, enabling students to explore the interconnected nature of Physics, Chemistry, and Geology. The programme adopts a flexible structure with multiple entry and exit options, choice-based credit system, and opportunities for skill enhancement, internships, and research projects.

The BS–MS programme seeks to nurture scientifically competent graduates who are capable of addressing real-world challenges through analytical reasoning and innovation. It also promotes experiential learning through laboratory work, field studies (particularly in Geology), and exposure to contemporary research methodologies. By fostering creativity, ethical responsibility, and lifelong learning,

the programme prepares students for careers in academia, industry, research organizations, and public policy.

Overall, this integrated programme reflects the transformative goals of NEP 2020 by bridging disciplinary boundaries and equipping students with the knowledge and skills required in a rapidly evolving scientific and technological landscape.

These programs are offered by the following three Departments:

- Chemistry (BS-MS in Chemistry)
- Earth Sciences (BS-MS in Applied Geology)
- Physics (BS-MS in Physics)

BS-MS Courses at a Glance

BS-MS (5 years) with one major and two minors – combining Bachelor of Science (BS) and Master of Science (MS)

Multiple Exit Options

BS UG Degree after 3rd Year
BS (Honours) / BS (Honours with Research) Degree after 4th Year
BS–MS Dual Degree after 5th Year

Placement Opportunities after BS-MS

- ❖ Curriculum with a strong focus on industry oriented courses
- ❖ Curriculum Suitable for pursuing higher studies as well career in industries
- ❖ Skill Enhancement courses on AI / ML, Basic Computer Programming, A Sustainable Development to meet the emerging demand of the job market
- ❖ Built transferable skills that are in demand by employers, such as critical thinking, problem-solving
- ❖ Emphasis on the practical applications of subject in various industries from financial sector to core engineering sector.
- ❖ Be a part of the IIEST ecosystem to nurture innovative research and entrepreneurship ideas
- ❖ Options to do industry internships

Placement

- ➢ 4 Year BS (Hons) and BS (Hons with Research) degree holders can take part at IIEST campus placement together with the 4 Year Engineering graduates
- ➢ 5 Year BS-MS Dual Degree holders can take part in IIEST campus placement together with the Masters students of Engineering disciplines

5. BS-MS Admission

Total Seats: 40 Each Department

Option I

Admission through JoSAA (20 seats for each Department): Candidates can apply through JoSAA after qualifying JEE Main Examination. (Link to be updated soon) *The candidates are requested to check the eligibility and other criteria for admission before applying.*

Option II

Admission using IISER Aptitude Test (IAT) Score (20 seats for each Department): Candidates having valid IAT score can apply through Institute Website directly (Link to be provided in June 2026, after publication of IAT 2026 result). *The candidates are requested to check the eligibility and other criteria for admission before applying.*

To know about IAT please visit
IAT Website: https://www.iiseradmission.in/
Information Brochure (IAT): https://www.iiseradmission.in/assets/pdfs/IB_IAT_2026_ENG.pdf

Option III
If any seat remains vacant after JoSAA counselling and Institute counselling using IAT score, the admission for the remaining seats will be done through Institute Spot Round. For details, please visit the Institute Website periodically in July 2026.

6. Seat Reservation

The Institute will follow the reservation policies of the Ministry of Education, Govt. of India. Certificate for EWS/OBC(NCL)/SC/ST/Person with Disability (PwD)/Domicile certificate (for State Quota) will be as per Govt. of India Rules.

Note: In absence of any applicant from PwD category, the seat reserved for PwD category will be filled by the candidate(s) who belong to the same category (without PwD).

7. Seat Matrix

The numbers of seats available in the three science departments for different social, economic and other categories are enumerated in Annexure I.

8. Fees

For detail of fees, please see Annexure II.

To know more about the degree offering Departments, please visit

Chemistry: https://www.iiests.ac.in/IIEST/AcaUnitDetails/CHEM

Earth Science: https://www.iiests.ac.in/IIEST/AcaUnitDetails/ES

Physics: https://www.iiests.ac.in/IIEST/AcaUnitDetails/PHYS

Annexure I

Seat Matrix for JoSAA

Seat Matrix for UG (BS-MS) Courses at IIEST, Shibpur for the Acacdemic Year 2026-2027 (JoSAA)														Program-Total	
Programme Name	**State/All India Seats**	**Seat Pool**	**Open**	**Open-PwD**	**EWS**	**EWS-PwD**	**SC**	**SC-PwD**	**ST**	**ST-PwD**	**OBC-NCL**	**OBC-NCL-PwD**		**Seat Capacity**	**Female Supernumerary**
BS-MS in Applied Geology	West Bengal	Gender-Neutral	3	0	1	0	2	0	1	0	2	0	9	20	0
	West Bengal	Female-only (including supernumerary)	1	0	0	0	0	0	0	0	1	0	2		
	Other than West Bengal	Gender-Neutral	2	1	1	0	1	0	0	0	2	0	7		
	Other than West Bengal	Female-only (including supernumerary)	1	0	0	0	0	0	0	0	1	0	2		
BS-MS in Chemistry	West Bengal	Gender-Neutral	3	1	1	0	2	0	1	0	2	0	10	20	0
	West Bengal	Female-only (including supernumerary)	1	0	0	0	0	0	0	0	1	0	2		
	Other than West Bengal	Gender-Neutral	3	0	1	0	1	0	0	0	1	0	6		
	Other than West Bengal	Female-only (including supernumerary)	1	0	0	0	0	0	0	0	1	0	2		
BS-MS in Physics	West Bengal	Gender-Neutral	3	0	1	0	2	0	1	0	1	1	9	20	0
	West Bengal	Female-only (including supernumerary)	1	0	0	0	0	0	0	0	1	0	2		
	Other than West Bengal	Gender-Neutral	3	0	1	0	1	0	1	0	1	0	7		
	Other than West Bengal	Female-only (including supernumerary)	1	0	0	0	0	0	0	0	1	0	2		
			23	**2**	**6**	**0**	**9**	**0**	**4**	**0**	**15**	**1**	**60**	**60**	**0**

Seat Matrix for IAT

Seat Matrix for UG (BS-MS) Courses at IIEST, Shibpur for the Acacdemic Year 2026-2027 (IAT)														Program-Total	
Programme Name	**State/All India Seats**	**Seat Pool**	**Open**	**Open-PwD**	**EWS**	**EWS-PwD**	**SC**	**SC-PwD**	**ST**	**ST-PwD**	**OBC-NCL**	**OBC-NCL-PwD**		**Seat Capacity**	**Female Supernumerary**
BS-MS in Applied Geology	West Bengal	Gender-Neutral	3	0	1	0	2	0	1	0	2	0	9	20	0
	West Bengal	Female-only (including supernumerary)	1	0	0	0	0	0	0	0	1	0	2		
	Other than West Bengal	Gender-Neutral	2	1	1	0	1	0	0	0	2	0	7		
	Other than West Bengal	Female-only (including supernumerary)	1	0	0	0	0	0	0	0	1	0	2		
BS-MS in Chemistry	West Bengal	Gender-Neutral	3	1	1	0	2	0	1	0	2	0	10	20	0
	West Bengal	Female-only (including supernumerary)	1	0	0	0	0	0	0	0	1	0	2		
	Other than West Bengal	Gender-Neutral	3	0	1	0	1	0	0	0	1	0	6		
	Other than West Bengal	Female-only (including supernumerary)	1	0	0	0	0	0	0	0	1	0	2		
BS-MS in Physics	West Bengal	Gender-Neutral	3	0	1	0	2	0	1	0	1	1	9	20	0
	West Bengal	Female-only (including supernumerary)	1	0	0	0	0	0	0	0	1	0	2		
	Other than West Bengal	Gender-Neutral	3	0	1	0	1	0	1	0	1	0	7		
	Other than West Bengal	Female-only (including supernumerary)	1	0	0	0	0	0	0	0	1	0	2		
			23	**2**	**6**	**0**	**9**	**0**	**4**	**0**	**15**	**1**	**60**	**60**	**0**

Annexure II

Fee Details (at the time of admission)*

Sl. No	Institute Code	Institute Name	GEN/OBC-NCL/EWS (Annual family income less than Rs. 1 lakh)		GEN/OBC-NCL/EWS (Annual family income Rs. 1 to 5 lakh)		GEN/OBC-NCL/EWS (Annual family income more than Rs. 5 lakh)		SC/ST		PwD		Mess Fee Included (Yes/No)
			Day Scholar	Hostellers	Day Scholar	Hostellers	Day Scholar	Hostellers	Day Scholar	Hostellers	Day Scholar	Hostellers	
1%	232	Indian Institute of Engineering Science and Technology, Shibpur	Rs. 43100	Rs. 81800	Rs. 43100	Rs. 81800	Rs. 43100	Rs. 81800	Rs. 35600	Rs. 74300.00	Rs. 35600	Rs. 74300.00	Yes for Hostellers

*All the fees are subjected to periodic revisions, as per institute policy.

% For BS-MS Students

Indian Institute of Engineering Science and Technology, Shibpur

Botanic Garden, Howrah - 711103

Fee structure for students admitted in AY 2026-27: Course - 5 Year BS - MS

Sl. No.	Particulars	
A	**ONE TIME CHARGES (Applicable for all the students and to be paid only once at the time of admission)**	**Amount (Rs.)**
1	Institutional caution money (refundable)	6000
2	Admission fee	3000
3	Alumni fee	2000
4	Benevolent fee	1000
5	Convocation registration fee	3000
6	Seminar/Thesis fee	1500
	Total (A)	**16500**

B	**ANNUAL CHARGES (Applicable for all the students and to be paid annually in every Monsoon Semester)**	**Amount (Rs.)**
1	Central computing facility and internet fee	3000
2	Sports fee	1000
3	Comprehensive mediclaim insurance premium *	1600
4	Techno-Cultural event fee	2000
	Total (B)	**7600**

C	**OTHER SEMESTER CHARGES (Applicable for all the students and to be paid in every semester)**	**Amount (Rs.)**
1	Semester registration fee	1000
2	Examination fee	1500
3	Library fee	1500
4	Career development, training and placement fee	1500
5	Students activity fee	1500
6	Health care and wellbeing fee	1000
7	Infrastructure maintenance fee	2500
8	Development fee	1000
	Total (C)	**11500**

D	**SEMESTER TUITION FEE (to be paid every semester)**	Gen, OBC, EWS candidates admitted through JoSAA / IAT	SC, ST and PWD candidates admitted through JoSAA / IAT	All sponsored candidates	Candidates under Study in India (SII) Non-SAARC	Candidates under Study in India (SII) SAARC
1	Tuition Fee	7500	0	15000	$ 3000	$ 1500

E	**HOSTEL SEAT RENT (Applicable for all the students and to be paid per semester by students with hostel accomodation)****	**Amount (Rs.)**
1	Hostel Seat Rent (Includes Room Rent, Electricity, Water Charges, etc.)	**10000**

Indian Institute of Engineering Science and Technology, Shibpur

Botanic Garden, Howrah - 711103

Fee structure for students admitted in AY 2026-27: Course - 5 Year BS - MS

Sl. No.	Particulars					
F	**TOTAL FEE PAYBLE**	Gen, OBC, EWS candidates admitted through JoSAA / IAT	SC, ST and PWD candidates admitted through JoSAA / IAT	All sponsored candidates	Candidates under Study in India (SII) Non-SAARC	Candidates under Study in India (SII) SAARC
	Without Hostel					
1	At the time of admission in 1st semester (A+B+C+D) i.e. monsoon semester of the 1st year	43100	35600	50600	35600 + $ 3000	35600 + $ 1500
2	For Winter Semester (C+D) i.e. 2nd/4th/6th/8th/10th semester	19000	11500	26500	11500 + $ 3000	11500 + $ 1500
3	For subsequent monsoon semester (B+C+D) after the 1st semester i.e. 3rd/5th/7th/9th semester	26600	19100	34100	19100 + $ 3000	19100 + $ 1500
	With Hostel					
4	At the time of admission in 1st semester (A+B+C+D+E) i.e. monsoon semester of the 1st year	53100	45600	60600	45600 + $ 3000	45600 + $ 1500
5	For Winter Semester (C+D+E) i.e. 2nd/4th/6th/8th/10th semester	29000	21500	36500	21500 + $ 3000	21500 + $ 1500
6	For subsequent monsoon semester (B+C+D+E) after the 1st semester i.e. 3rd/5th/7th/9th semester	36600	29100	44100	29100 + $ 3000	29100 + $ 1500

G	HOSTEL MESS CHARGES (Applicable for all the students with hostel accomodation and to be paid per semester)***	Amount (Rs.)
1	Mess establishment fee	6000
2	Mess entrance fee	1700
3	Mess food fee	20000
	Total (G)	**27700**

Note:

- * Mediclaim Policy amount may vary year to year.
- Mess food fee is adjustable with the actual mess bills, extra mess bill to be paid separately. Any excess amount will be refunded/adjusted after the closing of the semester.
- For conversion rate of foreign exchange, use conversion rate fixed by Reserve Bank of India on date of transfer of fees. All fee amounts are in INR (₹) unless explicitly mentioned otherwise. Note that $ refers to US$.
- All fees are subjected to periodic revisions, as per institute policy. All fees are non-refundable, unless mentioned otherwise.
- **Additional rent of Rs.1000/- per semester for single room, if allotted, shall be collected later as dues.
- *** The students will be required to pay additionally mess caution money (one time and refundable) of Rs.1000/- during hostel allotment.
- Bank account details for payment of fee ***F*** is as follows:
  Name of the account: IIEST, SHIBPUR - STUDENTS FEE; **Branch name:** UCO BANK, BESU BRANCH, IIEST, SHIBPUR, HOWRAH – 711103; **Ph:** 03326680042; **email id.:** hobesu@ucobank.co.in;
  IFSC Code: UCBA0002369 **MICR Code**: 700028178 **Account No**.: 23690110000489 **Swift Code:** UCBAINBB001
- Bank account details for payment of fee ***G*** will be notified by HMC.